

Technical Data Sheet

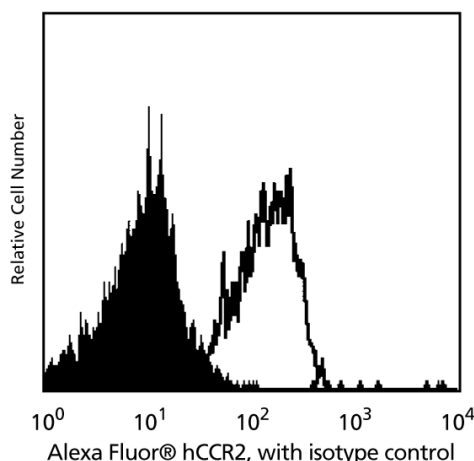
Alexa Fluor® 647 Mouse Anti-Human CD192 (CCR2)

Product Information

Material Number:	561744
Alternate Name:	CCR2
Size:	25 tests
Vol. per Test:	20 µl
Clone:	48607
Immunogen:	Human hCCR2-transfected NS0
Isotype:	Mouse IgG2b
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

CD192 (previously known as CCR2, MCP-1R and CC-CCR2), a seven-transmembrane, G-protein-coupled receptor, is the specific receptor for CC chemokines CCL2, CCL7, CCL8, CCL12, CCL13 and CCL16. It has been shown that CD192 is expressed constitutively in peripheral monocytes. CD192 exists in two forms, CD192A and CD192B. The two forms are derived from alternatively spliced variants of a single gene and differ at the C-terminal end. The human CD192 gene has been mapped to chromosome 3p21. The immunogen used to generate 48607 hybridoma was human CD192-transfected mouse cells. It does not cross-react with human CCR5 transfectants



Flow cytometric analysis of human CD192 on human peripheral monocytes. Human peripheral leukocytes were stained with either Alexa Fluor® 647 Mouse anti-Human CD192 (Cat. No. 557913; open histogram) or Alexa Fluor® 647 Mouse IgG2b, κ Isotype Control (Cat. No. 557903; shaded histogram). Flow cytometry was performed and the histograms were derived from the gated events based on light scattering characteristics of viable monocytes.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated to Alexa Fluor® 647 under optimum conditions, and unreacted Alexa Fluor® 647 was removed.

Application Notes

Application

Flow cytometry	Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
557903	Alexa Fluor® 647 Mouse IgG2b, κ Isotype Control	100 tests	27-35
554656	Stain Buffer (FBS)	500 ml	(none)

Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1×10^6 cells in a 100-µl experimental sample (a test).
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Alexa Fluor® 647 fluorochrome emission is collected at the same instrument settings as for allophycocyanin (APC).
4. Alexa Fluor® is a registered trademark of Molecular Probes, Inc., Eugene, OR.

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5. The Alexa Fluor®, Pacific Blue™, and Cascade Blue® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc. for research use only, excluding use in combination with microarrays, or as analyte specific reagents. The Alexa Fluor® dyes (except for Alexa Fluor® 430), Pacific Blue™ dye, and Cascade Blue® dye are covered by pending and issued patents.
6. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
7. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
8. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
9. An isotype control should be used at the same concentration as the antibody of interest.

References

Charo IF, Myers SJ, Herman A, Franci C, Connolly AJ, Coughlin SR. Molecular cloning and functional expression of two monocyte chemoattractant protein 1 receptors reveals alternative splicing of the carboxyl-terminal tails. *Proc Natl Acad Sci U S A*. 1994; 91(7):2752-2756. (Biology)

Wong LM, Myers SJ, Tsou CL, Gosling J, Arai H, Charo IF. Organization and Differential Expression of the Human Monocyte Chemoattractant Protein 1 Receptor Gene. EVIDENCE FOR THE ROLE OF THE CARBOXYL-TERMINAL TAIL IN RECEPTOR TRAFFICKING. *J Biol Chem*. 1997; 272(2):1038-1045. (Biology)

Yamagami S, Tokuda Y, Ishii K, Tanaka H, Endo N. cDNA cloning and functional expression of a human monocyte chemoattractant protein 1 receptor. *Biochem Biophys Res Commun*. 1994; 202(2):1156-1162. (Biology)